

Fig.1.

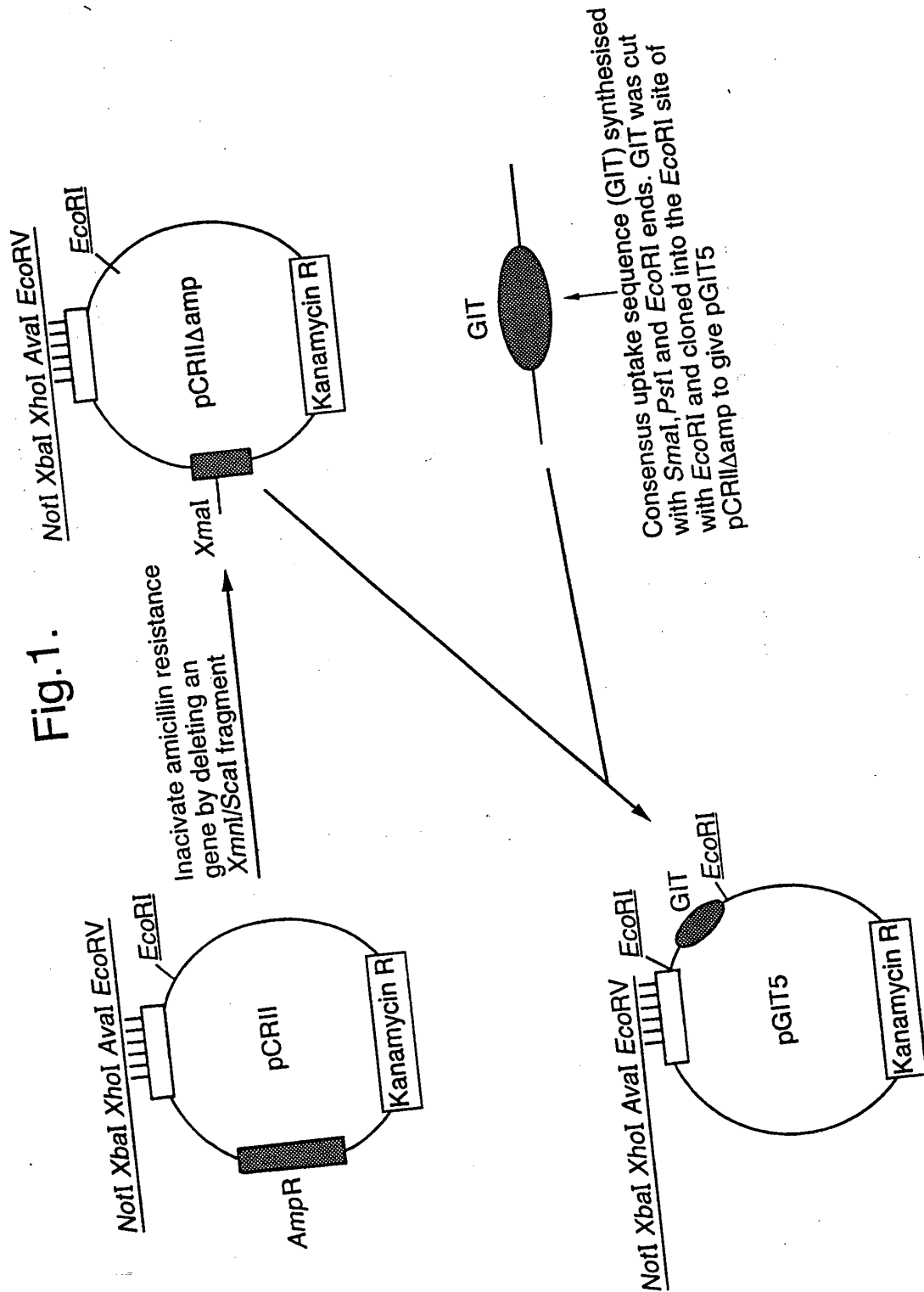








Fig.2:

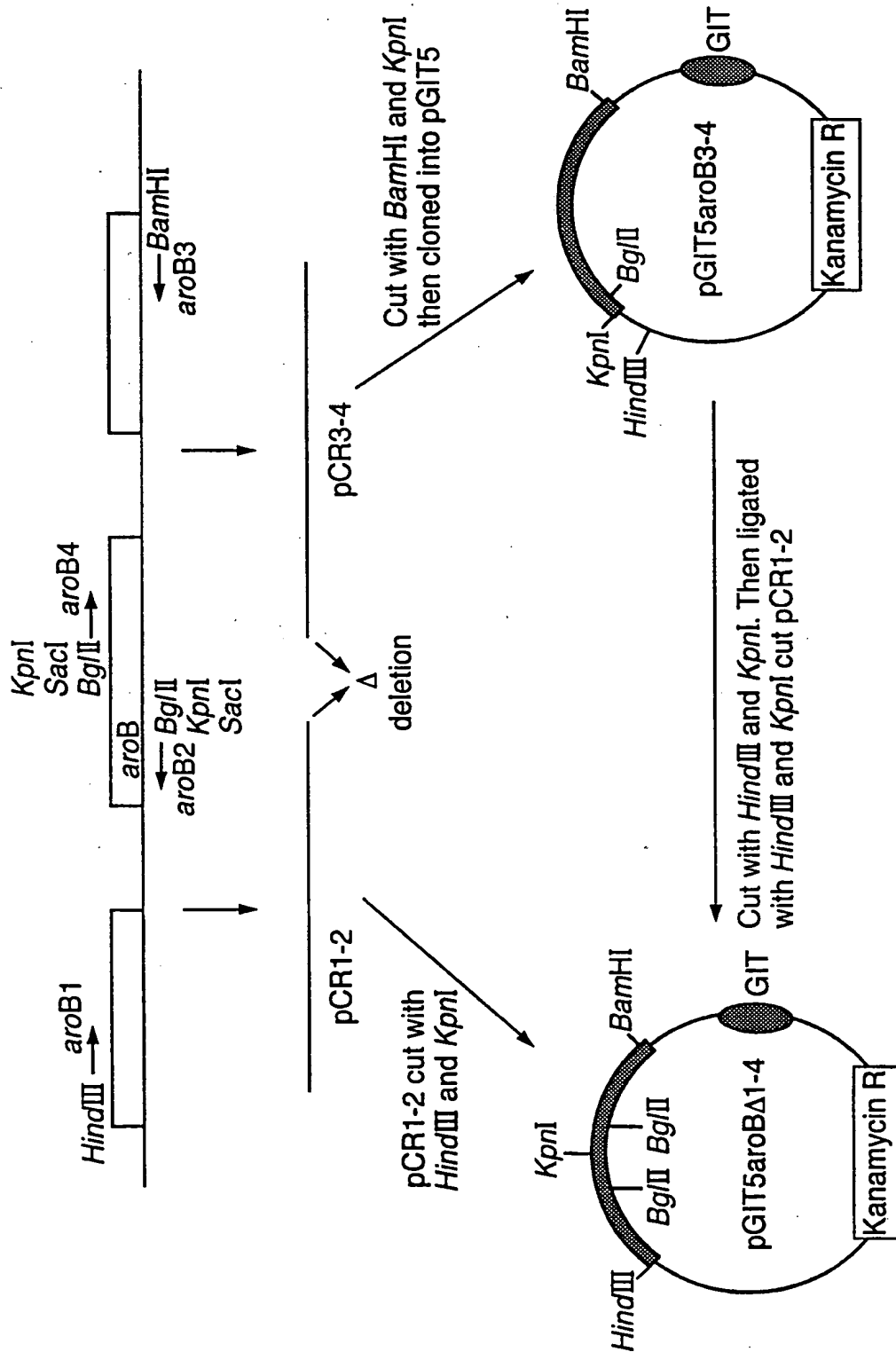
aroB1-	gcagatgcccgaggcgtttttatagcgg <div style="text-align: center;">  HindIII </div>	melting temperature=74°C
aroB2-	gagctcggtagccgtgcagcgtgccagatctgcaag <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  SacI KpnI </div> <div style="text-align: center;">  BglII </div> </div>	melting temperature=72°C
aroB3-	cataaagggatccgtgttcgccagc <div style="text-align: center;">  BamHI </div>	melting temperature=70°C
aroB4-	ggtaccgagctccaaatgaaggcagatctcgtcgccc <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  KpnI SacI </div> <div style="text-align: center;">  BglII </div> </div>	melting temperature=74°C

Amplify the two halves of the *aroB* region by PCR using the above primers in the following combinations

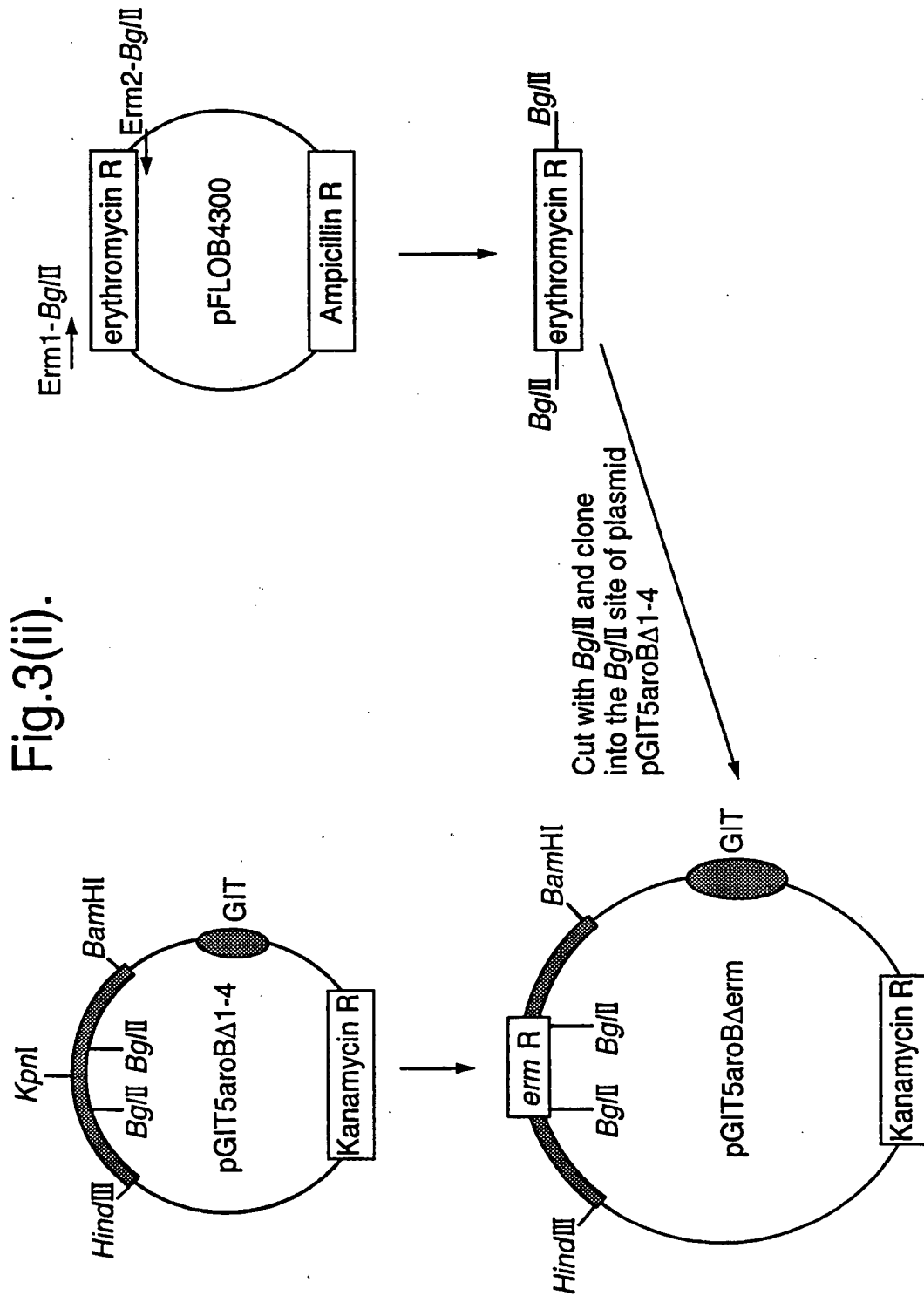
aroB1 + aroB2 - gives a fragment of 1575 bp. From upstream of *aroB*.

aroB4 + *aroB3* - gives a fragment of 1433 bp. From downstream of *aroB*.

Ligation of these fragments together gives a deletion in the middle of *aroB* of approximately 150 bp.

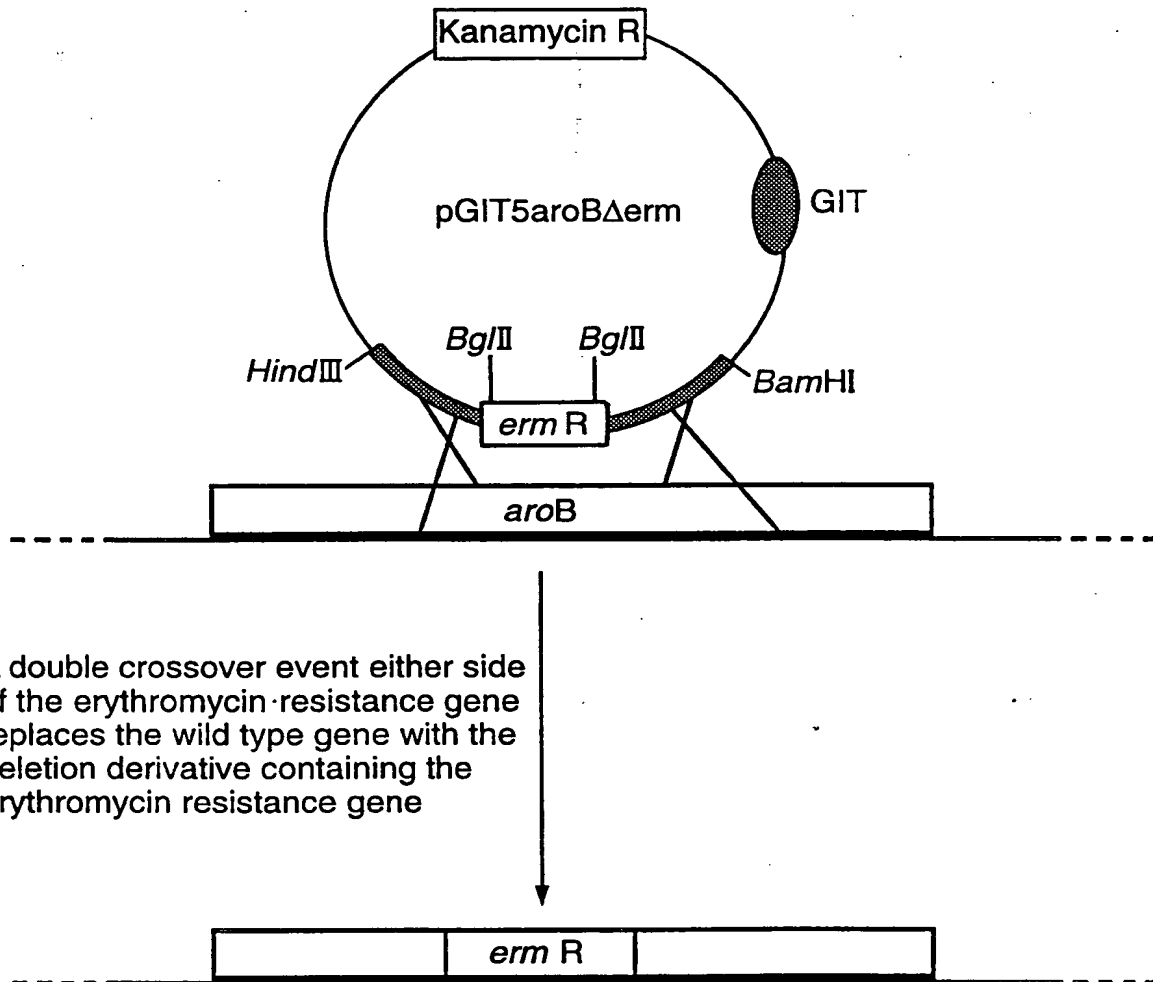
[illegible]

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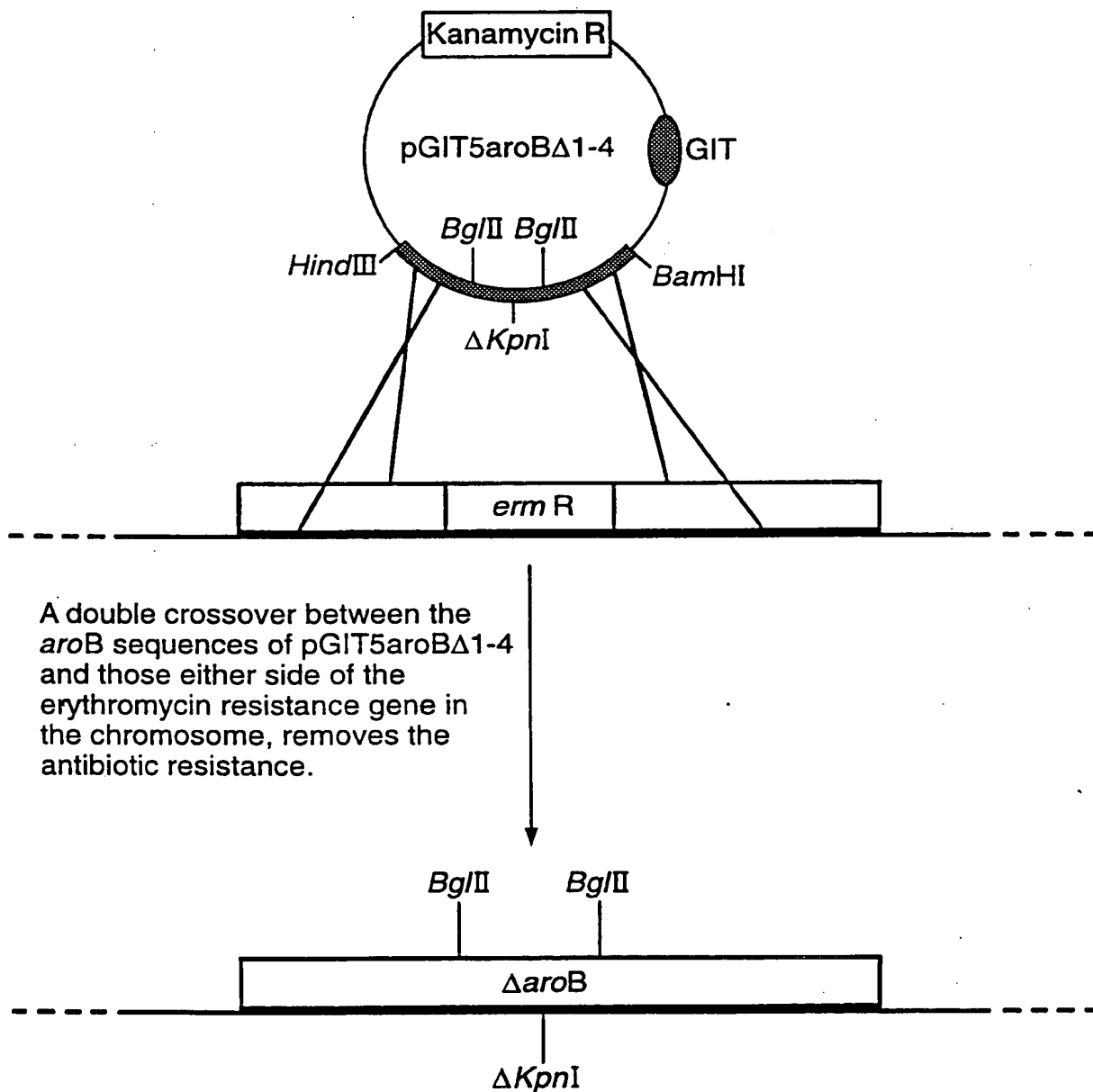
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Fig.3(iii).



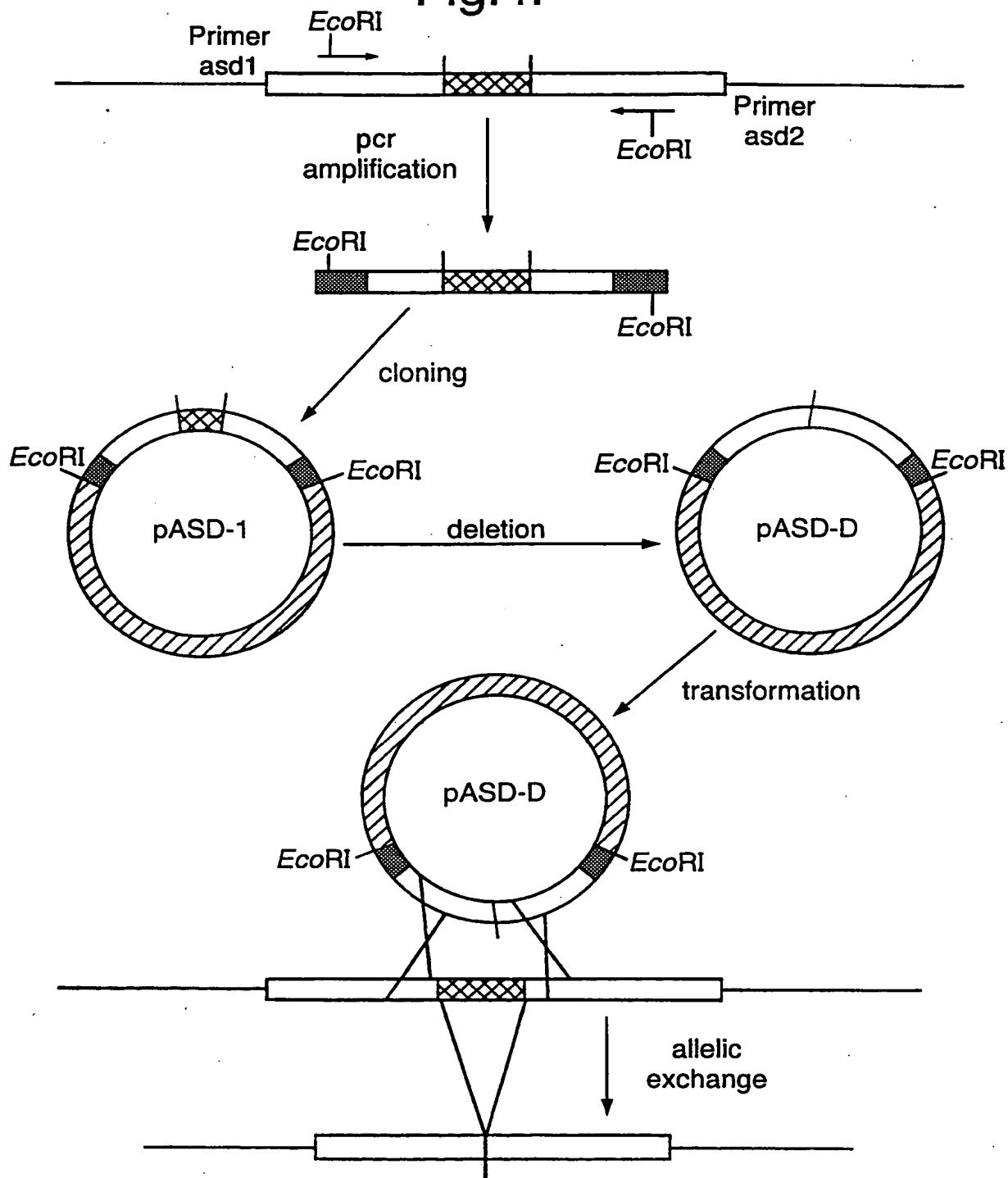
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Fig.3(iv).



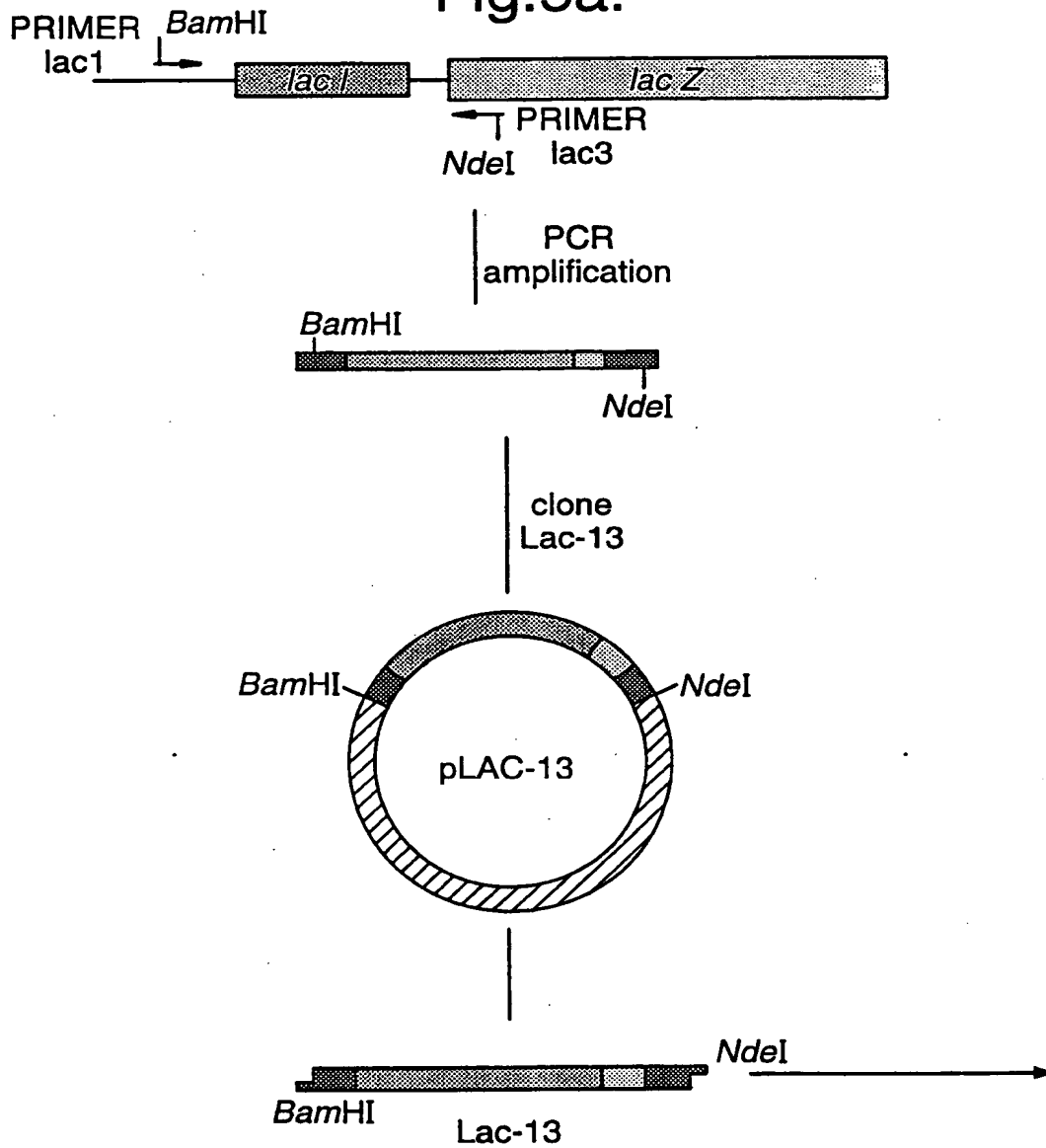
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Fig.4.



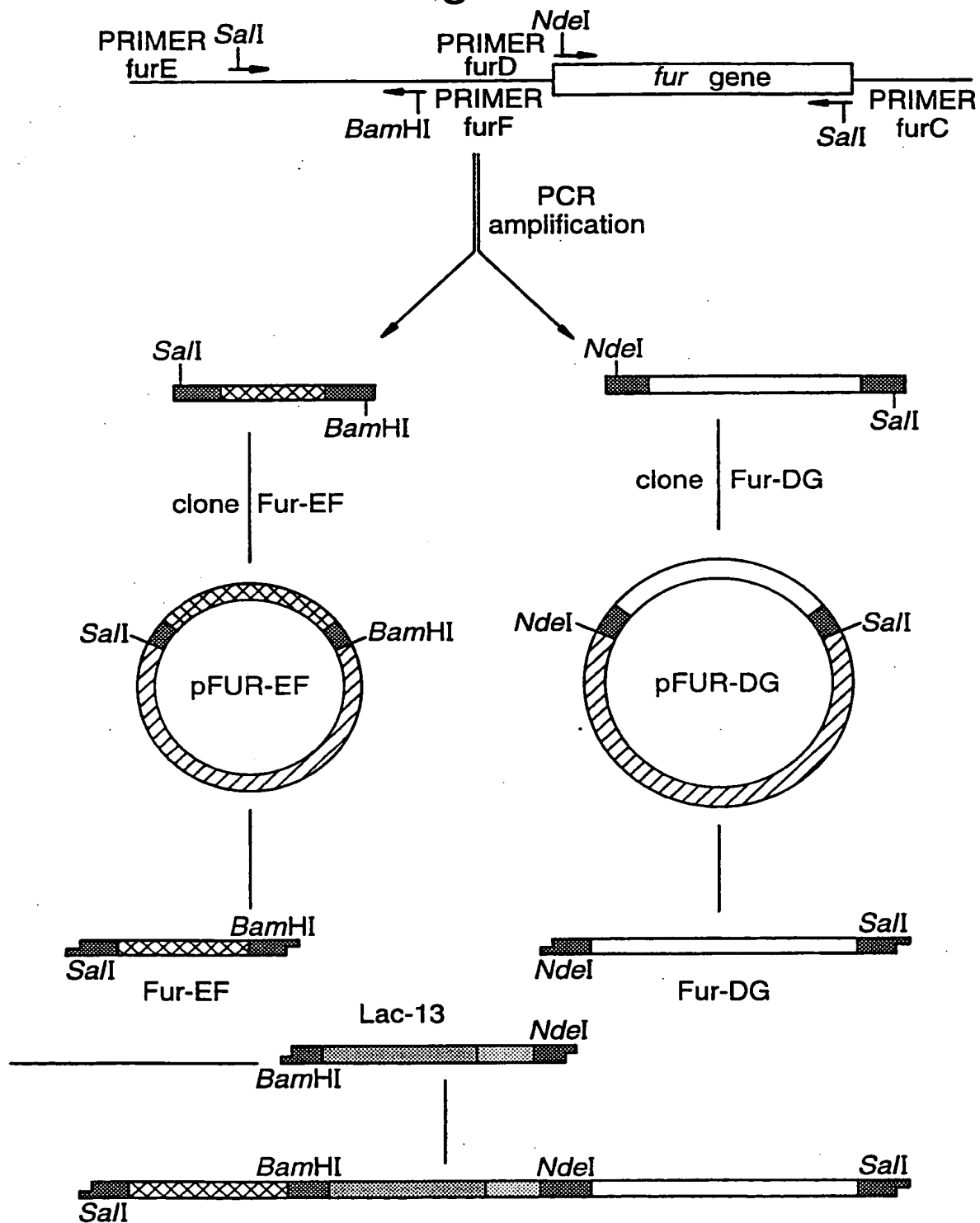
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Fig.5a.



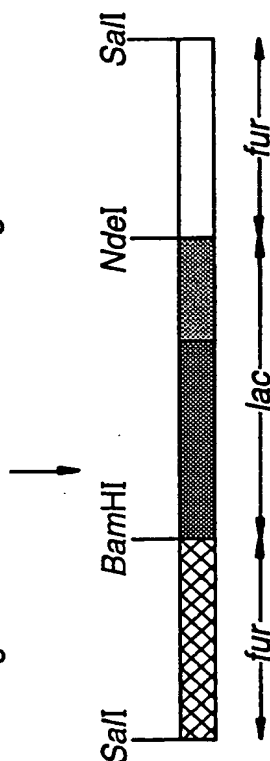
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Fig.5b.

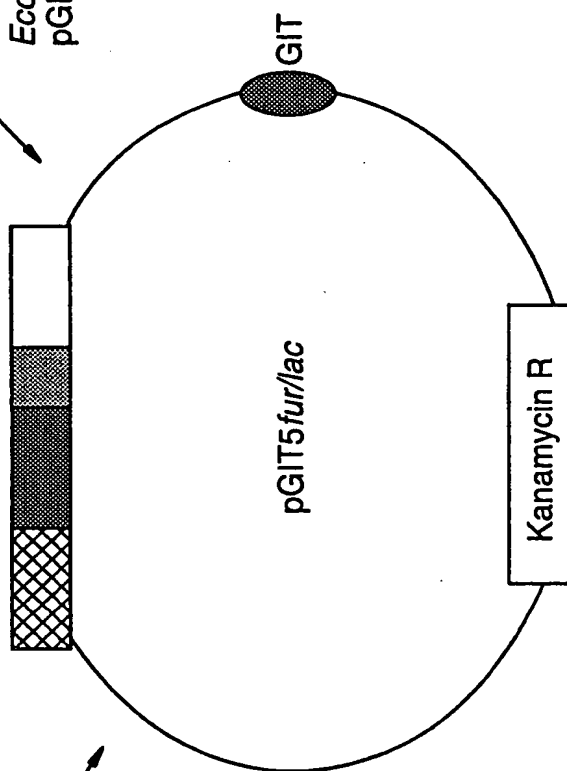
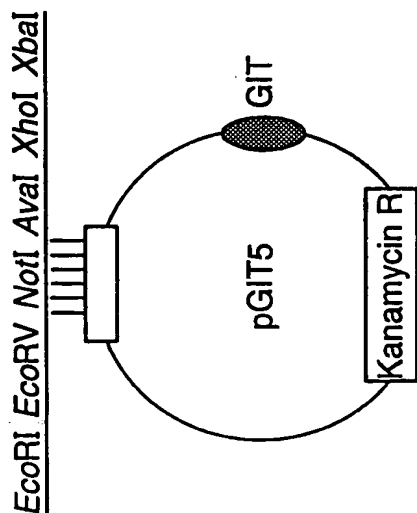


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The *fur/lac* construct was cut from the plasmid pUC18-*fur/lac* using *Sal*I. The 5' overhangs were filled in with klenow to give blunt ends.



The blunt ended *fur/lac* fragment was ligated into the blunt end *Eco*RV site of pGIT5 to give pGIT5*fur/lac*



pGIT5 was cut with the blunt end cutter *Eco*RV

Fig.5c.

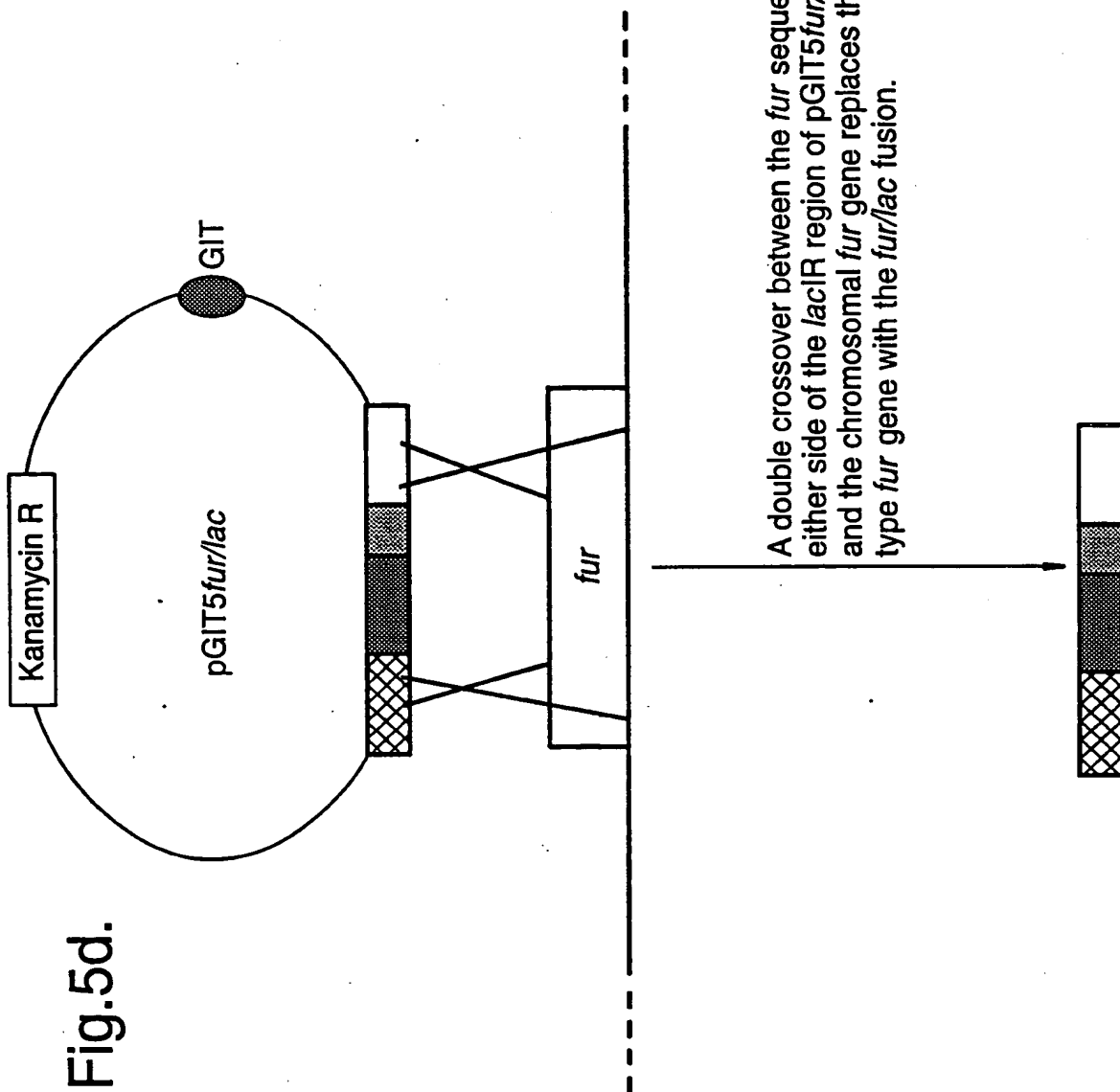


Fig.5d.